

In reply
refer to:

OFFICE OF THE POST MEDICAL INSPECTOR

CSA/ml

721.5

Fort Huachuca, Arizona,
January 4, 1943.

SUBJECT: Monthly Sanitary Report.

TO : Commanding Officer,
Fort Huachuca, Arizona.
Thru: Post Surgeon.

1. In compliance with Par. 1c, AR 40-275 as amended by Section III, War Department Circular 114, dated June 15, 1941, and Letter, the Surgeon General, file 721.5, subject as above, and War Department Circular Letter No. 76, file SPMCA, dated July 27, 1942, the following report on sanitary conditions of the command for the month of December, 1942, is submitted:

a. Environmental Sanitation.

(1) Water Supply

(a) Adequacy: The average daily consumption during the month was equivalent to 40.5% of the capacity of the system. The spring supply plus Wells Nos. 1, 2, 3, and 4 were operated.

(b) Water consumed.

Maximum daily consumption	-----	2,603,000	gals.
Minimum daily consumption	-----	1,119,100	"
Average daily consumption	-----	2,124,500	"
Average daily consumption	-----		
per capita	-----	103	gals.

(c) Bacteriological Analyses.

Civilian Housing (Tortilla Flats)	-----	1
Potable	-----	1
Building T-620	-----	1
Potable	-----	1
Building 98	-----	1
Potable	-----	1
Building 16	-----	1
Potable	-----	1
M. G. Ground Reservoir	-----	1
Potable	-----	1
Carden Canyon (at Dairy)	-----	1
Potable	-----	1
Huachuca Canyon	-----	2
Potable	-----	2
Mrs. Haynie Orto No. 63 North	-----	1
Potable	-----	1
Prater House No. 3008	-----	1
Potable	-----	1
Well No. 1.	-----	1
Potable	-----	1

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Well No. 2.	- - - - -	1
	Potable	- - - - - 1
Well No. 3.	- - - - -	1
	Potable	- - - - - 1
Well No. 4.	- - - - -	1
	Potable	- - - - - 1
Well No. 5.	- - - - -	1
	Potable	- - - - - 1
PX No. 18 - Tent City	- - - - -	1
	Potable	- - - - - 1
Building No. 510-	- - - - -	1
	Potable	- - - - - 1
Building No. 18	- - - - -	1
	Potable	- - - - - 1
Building T-892-	- - - - -	1
	Potable	- - - - - 1
Building 832-	- - - - -	1
	Potable	- - - - - 1
Garden Canyon Springs	- - - - -	1
	Potable	- - - - - 1

Bacteriological analysis report cards have been attached to this report.

- (d) Effectiveness of chlorination. The chlorine residual out in the distribution system of the new cantonment area and the old post varied between 0.3 and 0.5 p.p.m.
- (e) Chemical Analysis. Complete chemical analyses were performed during the month on samples of water from five wells, 3 springs, Post Dairy, nine houses, the M.G. Ground Reservoir, and one Post Exchange (Tent City). Copies of these analyses were placed on file in the laboratory. Chlorine residual taste, odor, and color tests were made daily. PH tests were made every ten days on water taken from the Post power plant, which was 20% spring water, 80% well water - high PH was 7.5 low 7.3 average 7.4.

(2) Sewerage System. (See inclosed reports on analytical examinations of sewage samples).

(a) There was no sewage by-passed during the month of December.

(b) Volume of sewage treated:

Plant No. 1	
Maximum	0.9 MGD
Minimum	0.3 MGD
Average	0.5 MGD
Plant No. 2	
Maximum	1.526 MGD
Minimum	0.657 MGD
Average	1.122 MGD

(c) Efficiency of Treatment
Suspended solids: (Monthly average)

<u>Plant No. 1</u>		<u>Plant No. 2</u>	
Raw	203 p.p.m.	Raw	267 p.p.m.
Primary	82 p.p.m.	Primary	100 p.p.m.
Reduction	59%	Reduction	62%
Final effluent	82 p.p.m.	Final effluent	57 p.p.m.
<u>5 Day B.O.D. Monthly Avg.</u>		<u>5 Day B.O.D. Monthly Avg.</u>	
Raw	145 p.p.m.	Raw	200 p.p.m.
Primary	72 p.p.m.	Primary	105 p.p.m.
Reduction	50%	Reduction	47.5%
Final effluent	72 p.p.m.	Final effluent	80 p.p.m.

(3) Housing. Housing was found to be satisfactory.

(a) All kitchens including those of Post Exchanges were found to be badly infested with cockroaches. These are being iradicated by a special detail using a Pyrethrium-Kerosene spray which is efficient. All ward kitchens, Post Exchange kitchens were treated with excellent results.

(4) Garbage Collection and Disposal. No garbage was burned in the incinerators. 80% of the garbage was removed from the Post by ranchers in this area. The remainder was placed in a garbage trench and covered by one foot of earth. Drainage of liquid garbage in the area used for disposal is poor, fluid appears on the surface even after being covered. A deeper trench 4.5' x 12' x 300' is being dug and will be enlarged as needed. The area being used is of clay and gravel clay formation, the latter predominating. The area is at least $\frac{1}{4}$ mile from the nearest pump house and drainage is away from there. Garbage cans when emptied are taken to the incinerator plant and washed and steamed.

(5) Food. See Annex report included herewith as an inclosure.

(6) Personal Hygiene. Hands (finger nails) of mess attendants were not clean, particularly amongst civilian attendants at Post Exchanges. Otherwise, conditions were satisfactory.

b. Communicable Diseases.

(1) Venereal Disease - See special report inclosed as an annex.

(2) Other diseases - No epidemic occurred during this month.

- c. Administrative measures and sanitary appliances: A larger and deeper garbage disposal trench is being dug. Cockroach eradication was instituted and carried out by a special detail using kerosene-Pyrethrum mixture in spray gun.
- d. Miscellaneous Subjects:
 - (1) All food handlers employed in Post Exchanges or Service Clubs have health cards and are being re-examined at three month intervals.
- e. Veterinary Sanitation. See monthly veterinary report inclosed herewith.
- f. RECOMMENDATIONS: None.

Carlton S. Allen.
 CARLTON S. ALLEN,
 Lt. Col., Med. Corps,
 Post Medical Inspector.

- Incls: 4
- 1. Bacterial Examination of Water
 - 2. Venereal Disease Report
 - 3. Messing Conditions
 - 4. Veterinary Report

1st Ind.

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Office of the Post Surgeon, Station Hospital, Fort Huachuca, Arizona,
 January 7, 1943. To: The Commanding Officer, Fort Huachuca, Arizona.

- 1. Approved.

E. B. Maynard
 E. B. MAYNARD,
 Colonel, Medical Corps,
 Post Surgeon.